

**CONVERSATIONAL NETWORKING VIA TRANSPORT, CODING  
AND CONTROL CONVERSATIONAL PROTOCOLS**

**ABSTRACT OF THE DISCLOSURE**

Conversational protocols for implementing distributed  
conversational networking architectures and/or distributed  
conversational applications, as well as real-time  
conversational computing between network-connected pervasive  
computing devices and/or servers over a computer network.  
In one aspect of the invention, a communication stack for  
use in a real-time distributed conversational network  
comprises a first layer for generating encoded audio data, a  
second layer for wrapping encoded audio data in a real-time  
encoded audio data stream, and a third layer for wrapping  
control messages in a real-time control data stream for  
real-time control of conversational distributed functions  
over the network. Preferably, the communication stack  
comprises extensions of RTP (Real Time Protocol) and RTCP  
(Real Time Control Protocol) to respectively transmit, in  
real-time, the necessary encoded audio data and control data  
for executing and controlling distributed conversational  
functions, wherein meta information associated with the  
real-time encoded audio stream is added as an extension of a

